ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: **Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.**

E-MEASUREMENT BOOK

First & Final Bill

Name of Contractor: M/s KRIDL

Estimated Cost: Rs.55.00 Lakhs

Office of the
Asst.Executive Engineer
Shettyhalli Sub Division
Bruhath Bangalore Mahanagara Palike
Bangalore

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
1	Removing B.S. slab of Drain and stacking.					
	Muneshwara temple road					
	RHS	1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	19.20	1.50		28.80
	LHS	1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	20.50	1.50		30.75
	3rd A cross Road					
		1	30.00	1.50		45.00
	RHS	1	30.00	1.50		45.00
		1	28.80	1.50		43.20
	LHS	1	30.00	1.50		45.00
		1	30.00	1.50		45.00
		1	16.70	1.50		25.05
					Total	**622.80**
					Limited to Tendered Qty	**311.40 Sqm**

304.50.

Assistant Engineer
Ward No.12
BBMP, Bengaluru
21/10/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods etc., MORTH / Chapter 3 complete as per specifications					
	Muneshwara temple road					
	RHS	1	30.00	0.90	0.40	10.80
		1	30.00	0.90	0.40	10.80
		1	30.00	0.90	0.40	10.80
		1	30.00	0.90	0.40	10.80
		1	19.20	0.90	0.40	6.91
	LHS	1	30.00	0.90	0.40	10.80
		1	30.00	0.90	0.40	10.80
		1	30.00	0.90	0.40	10.80
		1	20.50	0.90	0.40	7.38
	3rd A cross Road					
	RHS	1	30.00	1.0	0.45	13.50
		1	30.00	1.0	0.45	13.50
		1	28.80	1.0	0.45	12.96
	LHS	1	30.00	1.0	0.45	13.50
		1	30.00	1.0	0.45	13.50
		1	16.70	1.0	0.45	7.52
	Culvert					
		1	5.40	1.20	0.90	5.83
		1	8.30	1.20	0.90	8.96
		1	6.30	1.20	0.90	6.80
					Total	**185.97**
					Limited to Tendered Qty	**183.40**
						Cum

22/10

Assistant Engineer 22/10/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
3	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.					
	Muneshwara temple road					
	RHS	1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	19.20	0.90	0.15	2.60
	LHS	1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	20.50	0.90	0.15	2.77
	3rd A cross Road					
	RHS	1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	28.80	1.00	0.15	4.32
	LHS	1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	16.70	1.00	0.15	2.51
	Culverts	1	5.40	1.20	0.15	0.97
		1	8.30	1.20	0.15	1.49
		1	6.30	1.20	0.15	1.13
					Total	**62.14**
						Cum

23/10

Assistant Engineer 23/10/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
4	Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.					
	Muneshwara temple road					
	RHS Drain raft	1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	19.20	0.90	0.15	2.60
	LHS Drain raft	1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	30.00	0.90	0.15	4.05
		1	20.50	0.90	0.15	2.77
	3rd A cross Road					
	RHS	1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	28.80	1.00	0.15	4.32
	LHS	1	30.00	1.00	0.15	4.50
		1	30.00	1.00	0.15	4.50
		1	16.70	1.00	0.15	2.51
	Culvert Raft	1	5.40	1.20	0.15	0.97
		1	8.30	1.20	0.15	1.49
		1	6.30	1.20	0.15	1.13
	Muneshwara temple road					
	RHS Drain WALL	2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	19.20	0.15	0.60	3.46
	LHS Drain WALL	2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	20.50	0.15	0.60	3.69

4/11

04/11/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division

	3rd A cross Road					
	RHS Drain WALL	2	30.00	0.15	0.60	5.40
		2	30.00	0.15	0.60	5.40
		2	28.80	0.15	0.60	5.18
		2	30.00	0.15	0.60	5.40
	LHS Drain WALL	2	30.00	0.15	0.60	5.40
		2	16.70	0.15	0.60	5.01
	Culvert WALL	2	5.40	0.20	0.75	1.62
		2	8.30	0.20	0.75	2.49
		2	6.30	0.20	0.75	1.89
					Total	**144.88**
			Limited to Tendered Qty			**136.99**
						Cum

Assistant Engineer
Ward No.12
BBMP, Bengaluru

04/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.					
	Muneshwara temple road	1				3.95
	3rd A cross road	1				2.90
	culverts	3				0.63
				Total		**7.48**
				Limited to Tendered Qty		**6.64**
	Reinforcement Details are Enclosed (PT.0)					MT

Assistant Engineer 02/11/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

Item No : 5

MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

Steel Calculation

SL. NO	CHAINAGE FROM	CHAINAGE TO	SIDE	BAR	No	BAR DIA (mm)	SPACING (mm)	TOTAL SPACING (mm)	No. OF BARS ON EACH FACE	LENGTH OF EACH BAR (mm)	SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	TOTAL WT (kg)
Name of the Road: 3rd A cross road												
1	0.0	88.8	RHS L=88.80	Main (Outer)	1	10	150	88800.0	592	2200.0	650, 650, 900	802.827
				Dist. (Outer)	1	10	200	2200.0	11	88800.0	88800.0	602.120
2	0.0	110.5	LHS L=110.50	Main (Outer)	1	10	200	110500.0	552.5	2200.0	650, 650, 900	749.260
				Dist. (Outer)	1	10	200	2200.0	11	110500.0	110500.0	749.260
											Total in Kgs	**2903.47**
											Total in Tonne	**2.90**

02/11

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 055

BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

Item No : 5

MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

Steel Calculation

SL NO	CHAINAGE FROM	CHAINAGE TO	SIDE	BAR	No	BAR DIA (mm)	SPACING (mm)	TOTAL SPACING (mm)	No. OF BARS ON EACH FACE	LENGTH OF EACH BAR (mm)	SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	TOTAL WT (kg)
Name of the Road: Muneshwara temple road												
1	0.0	139.2	RHS L=139.20	Main (Outer)	1	10	150	139200.0	928	2200.0	650, 650, 900	1258.480
				Dist (Outer)	1	10	200	2200.0	11	139200.0	139200.0	943.864
2	0.0	110.5	LHS L=110.50	Main (Outer)	1	10	150	110500.0	737	2200.0	650, 650, 900	999.465
				Dist (Outer)	1	10	200	2200.0	11	110500.0	110500.0	749.260
											Total in Kgs	3951.08
											Total in Tonne	3.95

02/11

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.

Item No : 5

MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

Steel Calculation

SL NO	CHAINAGE FROM	CHAINAGE TO	SIDE	BAR	No	BAR DIA (mm)	SPACING (mm)	TOTAL SPACING (mm) c/c	No. OF BARS ON EACH FACE	LENGTH OF EACH BAR (mm)	SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	TOTAL WT (kg)
Name of the Road: Muneshwara temple road (culvert)												
1	0.0	5.4	culvert	Main (Outer)	1	10	150	5400.0	36	2700.0	850, 850, 1000	59.916
				Main (Inner)	1	10	200	5400.0	27	2200.0	750, 750, 700	36.615
				Dist. (Outer)	1	10	220	2700.0	12	5400.0	5400.0	39.944
				Dist. (Inner)	1	10	220	2700.0	12	5400.0	5400.0	39.944
											Total in Kgs	176.42
											Total in Tonne	0.18

02/4

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 057

BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

Item No : 5

MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

Steel Calculation

SL. NO	CHAINAGE FROM	CHAINAGE TO	SIDE	BAR	No	BAR DIA (mm)	SPACING (mm) c/c	TOTAL SPACING (mm)	No. OF BARS ON EACH FACE	LENGTH OF EACH BAR (mm)	SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	TOTAL WT (kg)
Name of the Road: 7th cross to SWD side (culvert)												
1	0.0	8.3	culvert	Main (Outer)	1	10	150	8300.0	56	2700.0	850, 850, 1000	93.203
				Main (Inner)	1	10	300	8300.0	27	2200.0	750, 750, 700	36.615
				Dist. (Outer)	1	10	220	2700.0	12	8300.0	8300.0	61.396
				Dist. (Inner)	1	10	220	2700.0	12	8300.0	8300.0	61.396
											Total in Kgs	**252.61**
											Total in Tonne	**0.25**

02/4

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 050

BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

Item No : 5

MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

Steel Calculation

SL. NO	CHAINAGE FROM	CHAINAGE TO	SIDE	BAR	No	BAR DIA (mm)	SPACING (mm)	TOTAL SPACING (mm)	No. OF BARS ON EACH FACE	LENGTH OF EACH BAR (mm)	SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	TOTAL WT (kg)
Name of the Road: 7th Cross Starting (culvert)												
1	0.0	6.3	culvert	Main (Outer)	1	10	150	6300.0	42	2700.0	850 / 1000 / 850	69.902
				Main (Inner)	1	10	240	6300.0	27	2200.0	750 / 700 / 750	36.615
				Dist. (Outer)	1	10	220	2700.0	12	6300.0	6300.0	46.601
				Dist. (Inner)	1	10	220	2700.0	12	6300.0	6300.0	46.601
											Total in Kgs	199.72
											Total in Tonne	0.20

02/11

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
6	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges.					
	Muneshwara temple road					
	RHS	1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	19.20	0.90		17.28
	LHS	1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	20.50	0.90		18.45
	3rd A cross Road					
	RHS	1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	28.80	0.90		25.92
	LHS	1	30.00	0.90		27.00
		1	30.00	0.90		27.00
		1	16.70	0.90		15.03
	Missing Slab Quantity					128.00
					Total	**501.68**
					Limited to Tendered Qty	**493.4**
						Sqm

Assistant Engineer
Ward No.12
BBMP, Bengaluru

18/4/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
7	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregates @ 0.47cum, with superplasticizer @3lts confirming to 189103- 1999 Reaffirmed-2008,0pen Foundation complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-Charge.					
	Culvert SLAB					
		1	5.40	1.00		5.40
		1x	8.30	1.00		8.30
		1	6.30	1.00		6.30
					Total	**20.00**
			Limited to Tendered Qty			**17.50**
						Sqm

18/4/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

Measurement Recorded in : First and Final Bill

Sl. No	Description of work	No	L	B	D	Qty
8	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.					
	Muneshwara temple road					
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	20.00	1.40	0.15	4.20
	3rd A cross Road					
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	15.00	1.40	0.15	3.15
		1	14.00	1.40	0.15	2.94
	KG halli road to swd culvert end					
		1	15.00	5.10	0.15	11.48
		1	15.00	5.00	0.15	11.25
		1	10.00	5.00	0.15	7.50
		1	15.00	10.80	0.15	24.30
		1	15.00	8.60	0.15	19.35
		1	15.00	7.05	0.15	15.86
					Total	**131.53**
					Limited to Tendered Qty	**125.07**
						cum

Assistant Engineer
Ward No.12
BBMP, Bengaluru
19/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
9	Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications.					
	Muneshwara temple road					
		1	15.00	3.90		58.50
		1	15.00	3.40		51.00
		1	15.00	3.50		52.50
		1	15.00	3.20		48.00
		1	15.00	3.20		48.00
		1	15.00	3.50		52.50
		1	15.00	4.00		60.00
		1	15.00	4.75		71.25
		1	20.00	6.05		121.00
	3rd A cross Road					
		1	15.00	3.45		51.75
		1	15.00	3.60		54.00
		1	15.00	4.00		60.00
		1	14.00	4.70		65.80
	KG halli road to swd culvert end					
		1	15.00	5.10		76.50
		1	15.00	5.00		75.00
		1	10.00	5.00		50.00
		1	15.00	10.80		162.00
		1	15.00	8.60		129.00
		1	15.00	7.05		105.75
					Total	**1392.55**
					Limited to Tendered Qty	**1303.00**
						sqm

Assistant Engineer 20/11/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KR.PURAM, BBMP Dasarahalli Sub-Division
BENGALURU-560 036

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
10	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.					
	Muneshwara temple road					
		1	15.00	3.90		58.50
		1	15.00	3.40		51.00
		1	15.00	3.50		52.50
		1	15.00	3.20		48.00
		1	15.00	3.20		48.00
		1	15.00	3.50		52.50
		1	15.00	4.00		60.00
		1	15.00	4.75		71.25
		1	20.00	6.05		121.00
	3rd A cross Road					
		1	15.00	3.45		51.75
		1	15.00	3.60		54.00
		1	15.00	4.00		60.00
		1	14.00	4.70		65.80
	KG halli road to swd culvert end					
		1	15.00	5.10		76.50
		1	15.00	5.00		75.00
		1	10.00	5.00		50.00
		1	15.00	10.80		162.00
		1	15.00	8.60		129.00
		1	15.00	7.05	23/11	105.75
					Total	**1392.55**
					Limited to Tendered Qty	**1303.00**
						Sqm

Assistant Engineer
Ward No.12
BBMP, Bengaluru
23/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 055

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.					
	Muneshwara temple road					
		1	15.00	3.90	0.15	8.78
		1	15.00	3.40	0.15	7.65
		1	15.00	3.50	0.15	7.88
		1	15.00	3.20	0.15	7.20
		1	15.00	3.20	0.15	7.20
		1	15.00	3.50	0.15	7.88
		1	15.00	4.00	0.15	9.00
		1	15.00	4.75	0.15	10.69
		1	20.00	6.05	0.15	18.15
	3rd A cross Road					
		1	15.00	3.45	0.15	7.76
		1	15.00	3.60	0.15	8.10
		1	15.00	4.00	0.15	9.00
		1	14.00	4.70	0.15	9.87
	KG halli road to swd culvert end					
		1	15.00	5.10	0.15	11.48
		1	15.00	5.00	0.15	11.25
		1	10.00	5.00	0.15	7.50
		1	15.00	10.80	0.15	24.30
		1	15.00	8.60	0.15	19.35
		1	15.00	7.05	0.15	15.86
					Total	**208.88**
	Limited to Tendered Qty					**195.45**
						cum

25/11

25/11/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Description of work	No	L	B	D	Qty
CONCRETE PAVEMENT					
KSRRB M600- Cement Concrete Pavements KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.					
Muneshwara temple road					
	1	15.00	3.90	0.15	8.78
	1	15.00	3.40	0.15	7.65
	1	15.00	3.50	0.15	7.88
	1	15.00	3.20	0.15	7.20
	1	15.00	3.20	0.15	7.20
	1	15.00	3.50	0.15	7.88
	1	15.00	4.00	0.15	9.00
	1	15.00	4.75	0.15	10.69
	1	20.00	6.05	0.15	18.15
3rd A cross Road					
	1	15.00	3.45	0.15	7.76
	1	15.00	3.60	0.15	8.10
	1	15.00	4.00	0.15	9.00
	1	14.00	4.70	0.15	9.87
KG halli road to swd culvert end					
	1	15.00	5.10	0.15	11.48
	1	15.00	5.00	0.15	11.25
	1	10.00	5.00	0.15	7.50
	1	15.00	10.80	0.15	24.30
	1	15.00	8.60	0.15	19.35
	1	15.00	7.05	0.15	15.86
				Total	**208.88**
Limited to Tendered Qty					**195.45 cum**

Assistant Engineer
Ward No.12
BBMP, Bengaluru
27/4/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications.					
	Muneshwara temple road					
		1	15.00	3.90	0.125	7.31
		1	15.00	3.40	0.125	6.38
		1	15.00	3.50	0.125	6.56
		1	15.00	3.20	0.125	6.00
		1	15.00	3.20	0.125	6.00
		1	15.00	3.50	0.125	6.56
		1	15.00	4.00	0.125	7.50
		1	15.00	4.75	0.125	8.91
		1	20.00	6.05	0.125	15.13
	3rd A cross Road					
		1	15.00	3.45	0.125	6.47
		1	15.00	3.60	0.125	6.75
		1	15.00	4.00	0.125	7.50
		1	14.00	4.70	0.125	8.23

06/12/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

6/12

6/12

	KG halli road to swd culvert end					
		1	15.00	5.10	0.125	9.56
		1	15.00	5.00	0.125	9.38
		1	10.00	5.00	0.125	6.25
		1	15.00	10.80	0.125	20.25
		1	15.00	8.60	0.125	16.13
		1	15.00	7.05	0.125	13.22
					Total	**174.07**
				Limited to Tendered Qty		**162.88**
						cum

Assistant Engineer
Ward No.12
BBMP, Bengaluru

06/12/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

6/12

ASSISTANT EXECUTIVE ENGINEER
NRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

BRUHATH BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of work : Improvements road and drains in 1st to 3rd cross road Gatepalya in Ward No.12, Shettyhalli Sub Divison.

First and Final Bill

Measurement Recorded in :

Sl. No	Description of work	No	L	B	D	Qty
14	Providing and fixing RCC name board of size 1.35x0.60x0.04 mtrs fixed Each 5,500.00 in reinforced cement concrete poles of size 0.10x0.10x2.60mtrs in cement concrete M 20 proportion using 20mm and down size graded metal machine mixed with 10mm dia main steel bars and 8mm dia stirups. The board shall be provided with 12mm thick cement plaster in cement mortar 1:3 on both the sides. The poles shall be embedded in the ground for a depth of 0.5 mtrs with cement concrete M 10 proportion. The board shall be fixed as per the drawing and at the place indicated by the Engineer incharge of the work. The cost includes excavation, bare cost of all materials, cost of steel, centering, transportation charges, fixing charges, labour, HOM etc., The work shall be carried out as per the detailed specifications					
	Muneshwara temple road	2				2.00
	3rd A cross Road	1				1.00
	KG halli road to swd culvert end	1				1.00
					TOTAL	**4.00**
						EACH

18/12

Assistant Engineer
Ward No.12
BBMP, Bengaluru

18/12/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056